

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2005/050385

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04Q7/38 H04L12/28 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| Y          | <p>US 2003/210680 A1 (RAO SHEKAR A ET AL)<br/>13 November 2003 (2003-11-13)<br/>sentences 1-3, paragraph 4<br/>sentence 3, paragraph 7<br/>paragraph '0024!<br/>sentence 4, paragraph 29<br/>sentence 5, paragraph 42<br/>sentences 5-7, paragraph 55<br/>paragraphs '0056!, '0058!, '0060!<br/>sentence 1, paragraph 67<br/>paragraph '0077!<br/>sentence 1, paragraph 80<br/>paragraph '0106!</p> <p style="text-align: center;">-----<br/>-/--</p> | 1-6                   |

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex.

\* Special categories of cited documents

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search

29 April 2005

Date of mailing of the international search report

10/05/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| Y          | <p>PERKINS J ET AL: "Pulse train deinterleaving via the Hough transform" ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 1994. ICASSP-94., 1994 IEEE INTERNATIONAL CONFERENCE ON ADELAIDE, SA, AUSTRALIA 19-22 APRIL 1994, NEW YORK, NY, USA, IEEE, vol. iii, 19 April 1994 (1994-04-19), pages III-197, XP010134245<br/>ISBN: 0-7803-1775-0<br/>figures 1,2,5,7<br/>left-hand column, lines 1-4, paragraph 1<br/>right-hand column, lines 2-5, paragraph 1<br/>paragraph '0002!<br/>right-hand column, lines 5-9, paragraph 3<br/>paragraph '03.2!<br/>paragraph '0004!</p> | 1-6                   |
| A          | <p>US 2003/107512 A1 (MCFARLAND WILLIAM ET AL) 12 June 2003 (2003-06-12)<br/>figure 4<br/>sentence 1, paragraph 16<br/>paragraphs '0017!, '0020!, '0036!<br/>paragraphs '0039!, '0062!</p>   | 1-6                   |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050385

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| US 2003210680 A1                          | 13-11-2003          | AU 2003223715 A1           | 10-11-2003          |
|   |                     | CA 2480094 A1              | 06-11-2003          |
|   |                     | EP 1497958 A1              | 19-01-2005          |
|   |                     | WO 03092231 A1             | 06-11-2003          |
| US 2003107512 A1                          | 12-06-2003          | AU 2002310410 A1           | 23-06-2003          |
|   |                     | EP 1454162 A1              | 08-09-2004          |
|   |                     | WO 03050560 A1             | 19-06-2003          |